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<u>L2</u>	L1 same transgenic\$ same plant\$	10	<u>L2</u>
	(aspartate adj aminotransferase\$) or (glutamate adj 2-oxoglutarate		
<u>L1</u>	adj aminotransferase\$) or (glutamate adj dehydrogenase\$) or	3680	<u>L1</u>
	asparaginase\$		

END OF SEARCH HISTORY

Long, L.M. and Lightfoot, D.A., "Field Evaluation of Nitrogen Use Efficiency of Transgenic Tobacco Expressing the Escherichia coli Glutamate Dehydrogenase Gene", Abstract#???, Supplement to Plant Physiology 111, No. ?, p. ?, 1996.

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Search Criteria:

Author: long, l **Author:** lightfoot, d **Title/Abstract:** glutamate dehydrogenase **Anywhere in Article:** abstract **From:** Jan 1996 **through:** Dec 1996 **In Journals:** Plant Physiology

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?s (aspartate aminotransferase?) or (glutamate 2-oxoglutarate aminotransferase?) or (glutamate dehydrogenase?) or asparaginase?

47221 ASPARTATE AMINOTRANSFERASE?

0 GLUTAMATE 2-OXOGLUTARATE AMINOTRANSFERASE?

13423 GLUTAMATE DEHYDROGENASE?

24274 ASPARAGINASE?

S1 83179 (ASPARTATE AMINOTRANSFERASE?) OR (GLUTAMATE
2-OXOGLUTARATE AMINOTRANSFERASE?) OR (GLUTAMATE
DEHYDROGENASE?) OR ASPARAGINASE?

?s s1 (s) transgenic? (s) plant?

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S2	1	S1 (S) TRANSGENIC? (S) PLANT?

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2/3,K/1 (Item 1 from file: 357)
 DIALOG(R)File 357:Derwent Biotech Res.
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0179764 DBR Accession No.: 95-07784 PATENT
Plants exhibiting enhanced nitrogen assimilation - e.g.
glutamine-synthetase, asparagine-synthetase and *asparaginase*
over-expression in *transgenic* *plant*, for application in enhanced
nitrogen-fixation and improved yield
 AUTHOR: Coruzzi G M; Brears T
 PATENT ASSIGNEE: Univ.New-York 1995
 PATENT NUMBER: WO 9509911 PATENT DATE: 950413 WPI ACCESSION NO.:
 95-155252 (9520)
 PRIORITY APPLIC. NO.: US 132334 APPLIC. DATE: 931006 *Too LATE.*
 NATIONAL APPLIC. NO.: WO 94US11281 APPLIC. DATE: 941006
 LANGUAGE: English

- e.g. glutamine-synthetase, asparagine-synthetase and *asparaginase*
over-expression in *transgenic* *plant*, for application in enhanced
nitrogen-fixation and improved yield
 ABSTRACT: The following are claimed: (1) construction of a *transgenic*
 plant (I) with an improved agronomic or nutritional characteristic by
 engineering (I) for ectopic overexpression of 1 or several nitrogen
 assimilation/metabolism enzymes; (2) transforming (I...
 ...more than 1 gene fusions that confer ectopic overexpression of more than
 1 of the nitrogen assimilation/metabolism enzymes; (3) selecting or
 identifying the transformed *plant* based on the trait conferred by a
 marker gene linked to the gene fusion; (4) screening and selecting the
 transformed *plant* for improved agronomic or nutritional
 characteristics when the transformed *plant* is cultivated under
 nitrogen non-limiting growth conditions; (5) a seed of (I) which

contains more than 1 of the gene fusions as in (1); (6) a method of producing a *plant* with a suppressed level of glutamine-synthetase (GS, EC-6.3.1.2) and asparagine-synthetase (AS, EC-6.3.1.1); and (7) a *transgenic* *plant* which ectopically overexpresses a gene encoding aspartate-aminotransferase (EC-2.6.1.1), glutamate-2-oxoglutamate-amino transferase, glutamate-dehydrogenase (EC-1.4.1.2), *asparaginase* (EC-3.5.1.1), eukaryote AS or cystolic GS. (105pp)

DESCRIPTORS: glutamine-synthetase, asparagine-synthetase, aspartate-aminotransferase, glutamate-2-oxoglutamate-aminotransferase, glutamate-dehydrogenase, *asparaginase* over-expression in *transgenic* *plant*, appl. enhanced nitrogen-fixation, improved yield enzyme
EC-6.3.1.2 EC-6.3.1.1 EC-2.6.1.1 EC-1.4...

?